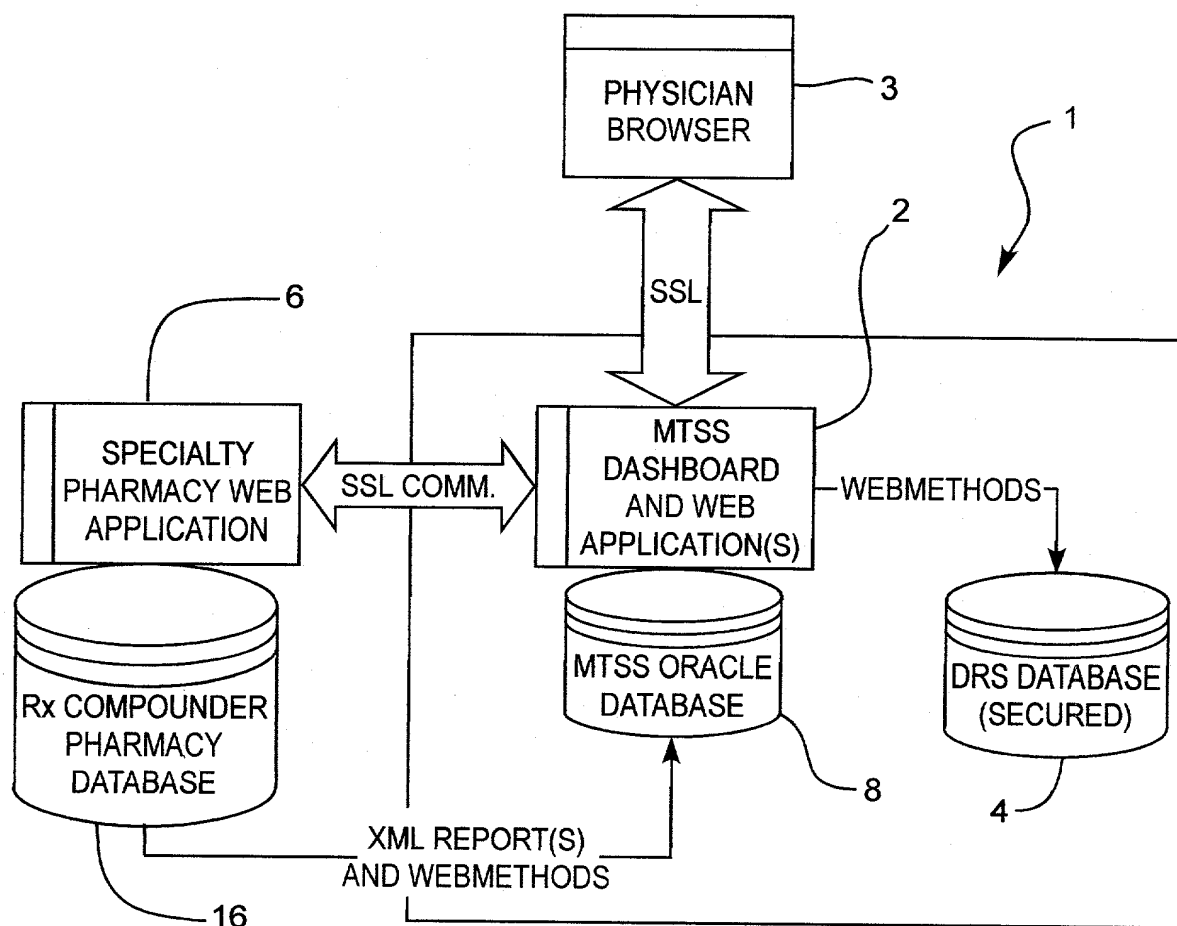


*Fig. 1*



*Fig. 2*

ADA	Application Development Architecture
ETA	Enterprise Technology Architecture
HIPPA	Health Insurance Patient Privacy Act
FDA	Food and Drug Administration
B2B	Business-to-Business
B2C	Business-to-Consumer
CMS	Content Management System
PIN	Personal Identification Number (works like a password)
DRS	Device Registration System (Oracle® Instance)
JSP	Java Server Page
LDAP	Lightweight Directory Access Protocol (via Oblix® policy server)
SSL	Secure Socket Layer (Browser data communications encryption)
VPN	Virtual Private Network (IP-Server implementation, B2B data encryption)
XML	eXtensible Markup Language (for machine readable documents and B2B communications)
TSS	Therapy Support Services, or TSS for short
SAIT	Server Administrator Information Technology
SRS	System Requirements Specification
DD	Design Detail Document
SVP	System/Software Validation Plan
VT	Short for Verification Test checklist
SVR	System/Software Validation Report

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Fig. 3



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Medtronic Therapy Support Services

Welcome! Please file out the following forms to register. Fields marked with an \* are required.

\*User ID:

\*Password:

\*Confirm:

Your password must be at least 7 characters in length and must contain at least 2 numeric characters.

Salutation:  ▼

\*First Name:

Preferred Name:

Middle Name:

\*Last Name:

Name Suffix:

\*E-Mail Address:

Street Address:

City:

\*State:

Zip:

Phone Number:

Fax:

\*Are you a Physician? ☒ Yes ☐ No

\*Do you want to receive informational e-mails? ☒ Yes ☐ No

Connection Type  ▼

Computer Type  ▼

Location  ▼

Number of Computers

I understand that my User ID and password are for my use only and I agree that I will not share my login information with anyone, nor login using another's User ID.

Fig. 4

Contact Medtronic

Please fill out the form below to receive more information about the Therapy Support Services. Email Us!

Fields marked with \* are required.

\*First Name:

\*Last Name:

\*E-mail Address:

Street Address:

City:

\*State:

Zip:

\*Phone Number:

Fax

\*Message:

Issue:

Forget your Username/Password ▼

Send

Clear

Fields marked with \* are required.

Fig. 5


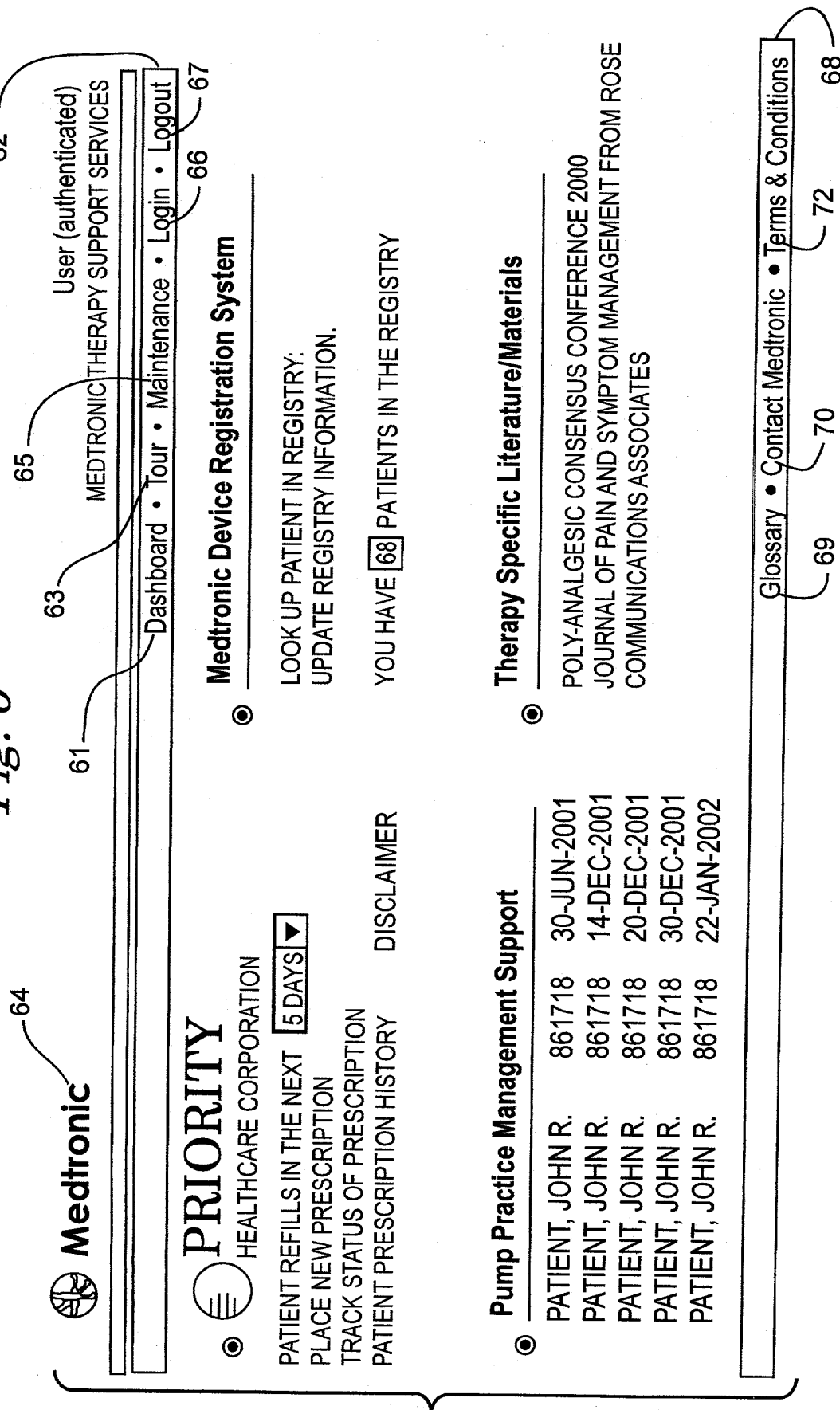
 <b>Medtronic</b>		<b>Owner/M.D. Authenticator</b> <b>MEDTRONIC THERAPY SUPPORT SERVICES</b>	
Please fill out the following form to complete registration. Fields marked with a * are required.			
*Social Security No.:	<input type="text" value="123-45-6789"/>	*Home Phone:	<input type="text" value="612-555-2435"/>
*UPIN:	<input type="text" value="U12345678"/>	*Office Phone:	<input type="text" value="612-555-3467"/>
*DEA Number:	<input type="text"/>	*Hospital Phone:	<input type="text" value="612-555-8436"/>
*DEA Expiration:	<input type="text"/>	Pager:	<input type="text"/>
*State License No.:	<input type="text"/>	Cellphone:	<input type="text"/>
*State License Expiration:	<input type="text"/>		
*Profession:	<input type="text" value="Physician"/>		
*Specialty:	<input type="text" value="Neuro Surgery"/>		
<input type="button" value="Submit"/>		<input type="button" value="Clear/Start Over"/>	
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Fig. 6




**Medtronic**
**Fig. 7**

MEDTRONIC THERAPY SUPPORT SERVICES				User (authenticated)	
Dashboard • Tour • Maintenance • Login • Logout					
Medtronic Pump Replacement Report					
Patient Name	Model Implant Date	-3-SD	Likely Date	+3-SD	
Patient, John R.	861718 12/31/1996	Calculate	30-Jun-2001	30-Jun-2002	30-Dec-2002
Patient, John R.	861718 06/14/1997	Calculate	14-Dec-2001	14-Jun-2003	14-Jun-2003
Patient, John R.	861718 06/20/1997	Calculate	20-Dec-2001	20-Jun-2003	20-Jun-2003
Patient, John R.	861718 06/30/1997	Calculate	30-Dec-2001	30-Jun-2003	30-Jun-2003
Patient, John R.	861718 07/22/1997	Calculate	22-Jan-2002	22-Jul-2003	22-Jul-2003
Patient, John R.	861718 07/25/1997	Calculate	25-Jan-2002	25-Jul-2003	25-Jul-2003
Patient, John R.	861718 08/19/1997	Calculate	19-Feb-2002	19-Aug-2003	19-Aug-2003
Patient, John R.	861718 08/19/1997	Calculate	19-Mar-2002	19-Sep-2003	19-Sep-2003
Patient, John R.	861718 11/03/1997	Calculate	03-May-2002	03-Nov-2003	03-Nov-2003
Patient, John R.	861718 12/11/1997	Calculate	11-Jun-2002	11-Dec-2003	11-Dec-2003
Patient, John R.	861718 03/06/1998	Calculate	06-Sep-2002	06-Mar-2004	06-Mar-2004
Patient, John R.	861718 03/18/1998	Calculate	18-Sep-2002	18-Mar-2004	18-Mar-2004

Repeat Interpretation

76

76

76

*Fig. 8*



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MEDTRONIC THERAPY SUPPORT SERVICES

**Patient:** Patient, John R.

**Pump Model** 861718

**Implant Date:** 08/05/1998

**Avg. Daily  
Infusion Volume:**  mL

---

**-3 SD:** 05-Nov-2001

**Mean Date:** 05-Mar-2002 [43.6 Months]

**+3 SD** 05-Mar-2002

**Important:** This calculation assumes constant daily infusion volume over the life of the pump. To improve your calculation, enter your best estimate of the programmed average daily infusion volumes since implant.





*Fig. 10*

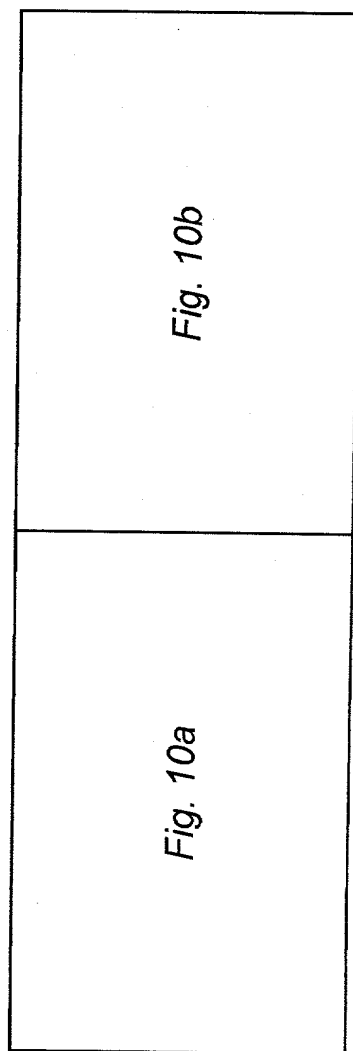


Fig. 10a

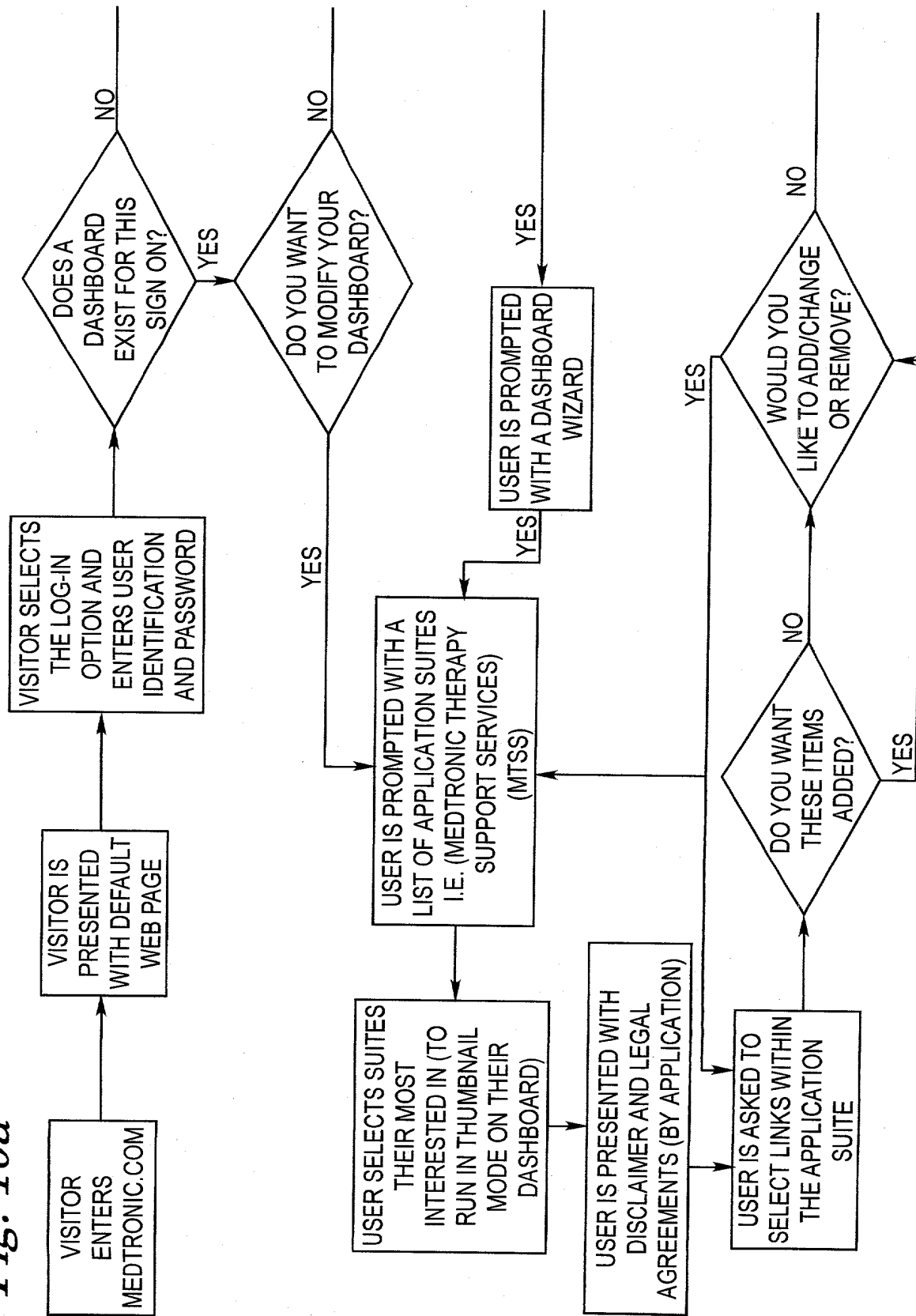


Fig. 10b

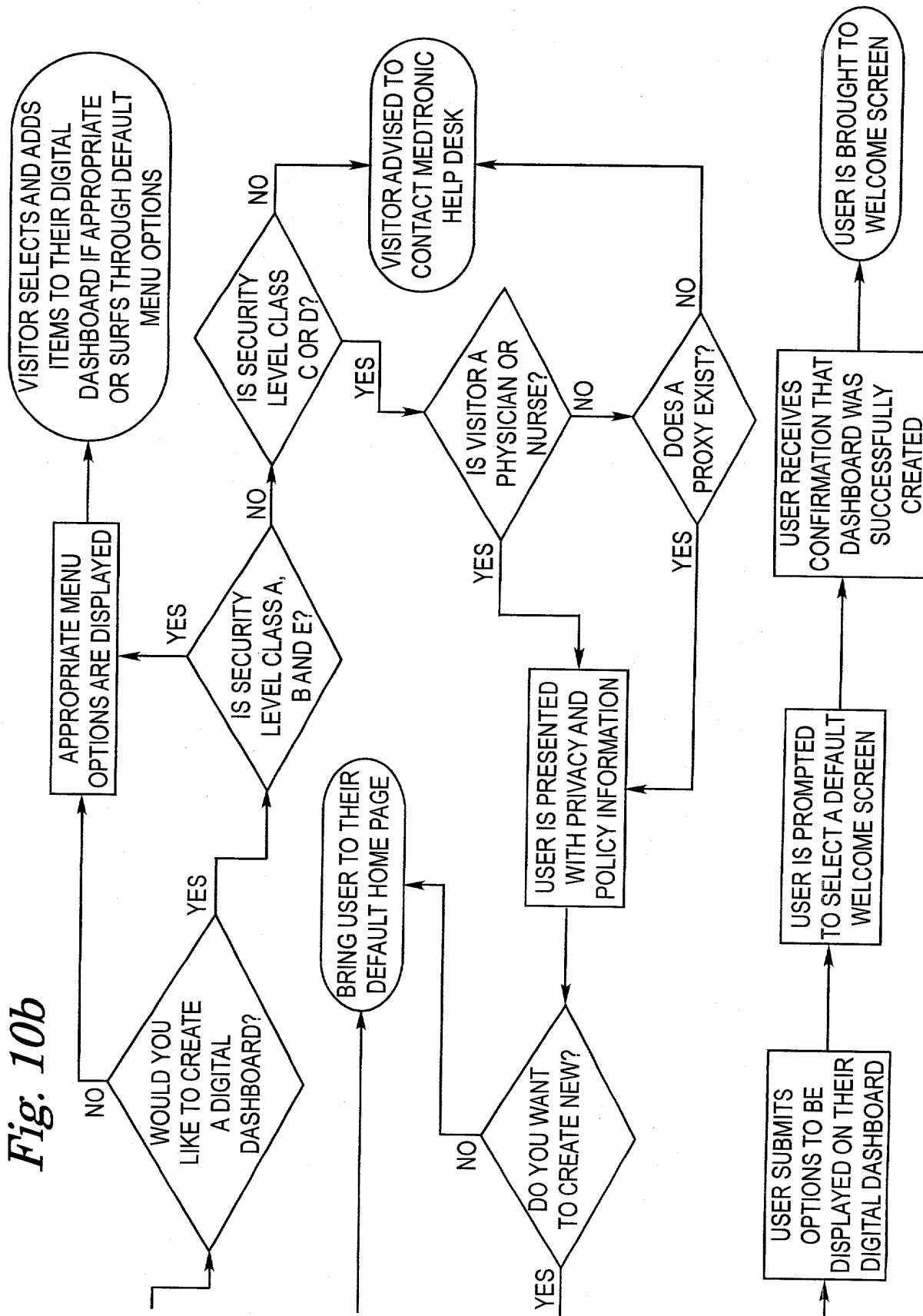


FIG. 11 is a block diagram of a system architecture showing three domains: PHC, INTERNET, and MEDTRONIC. The PHC domain contains a WEB METHODS PARTNER and a WEB SERVER. The INTERNET domain contains a cloud icon. The MEDTRONIC domain contains a WEB METHODS B2B (WEBPROD5), an APPLICATION SERVER (APPROD1), and two databases: DRS (MSPR) and MTSS (MSPR5). A USER is shown in the MEDTRONIC domain. Connections are as follows: PHC WEB METHODS PARTNER to PHC WEB SERVER; PHC WEB SERVER to PHC WEB METHODS PARTNER; PHC WEB SERVER to INTERNET cloud; INTERNET cloud to MEDTRONIC WEB METHODS B2B (WEBPROD5); MEDTRONIC WEB METHODS B2B (WEBPROD5) to MEDTRONIC APPLICATION SERVER (APPROD1); MEDTRONIC APPLICATION SERVER (APPROD1) to MEDTRONIC DRS (MSPR) and MTSS (MSPR5); MEDTRONIC APPLICATION SERVER (APPROD1) to MEDTRONIC WEB SERVER (WEBPROD1); MEDTRONIC WEB SERVER (WEBPROD1) to USER. All connections between domains are labeled SSL.

*Fig. 11*

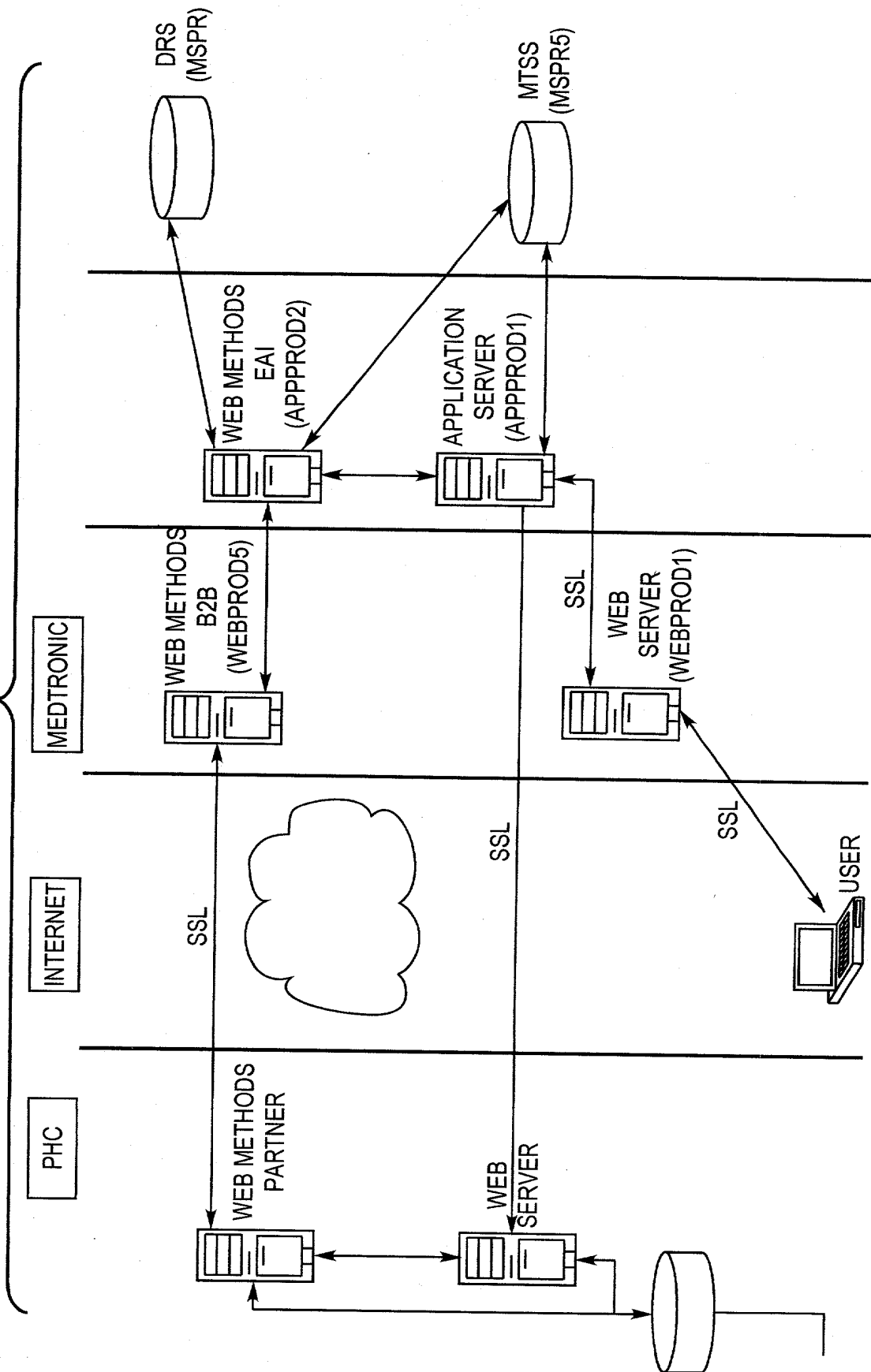
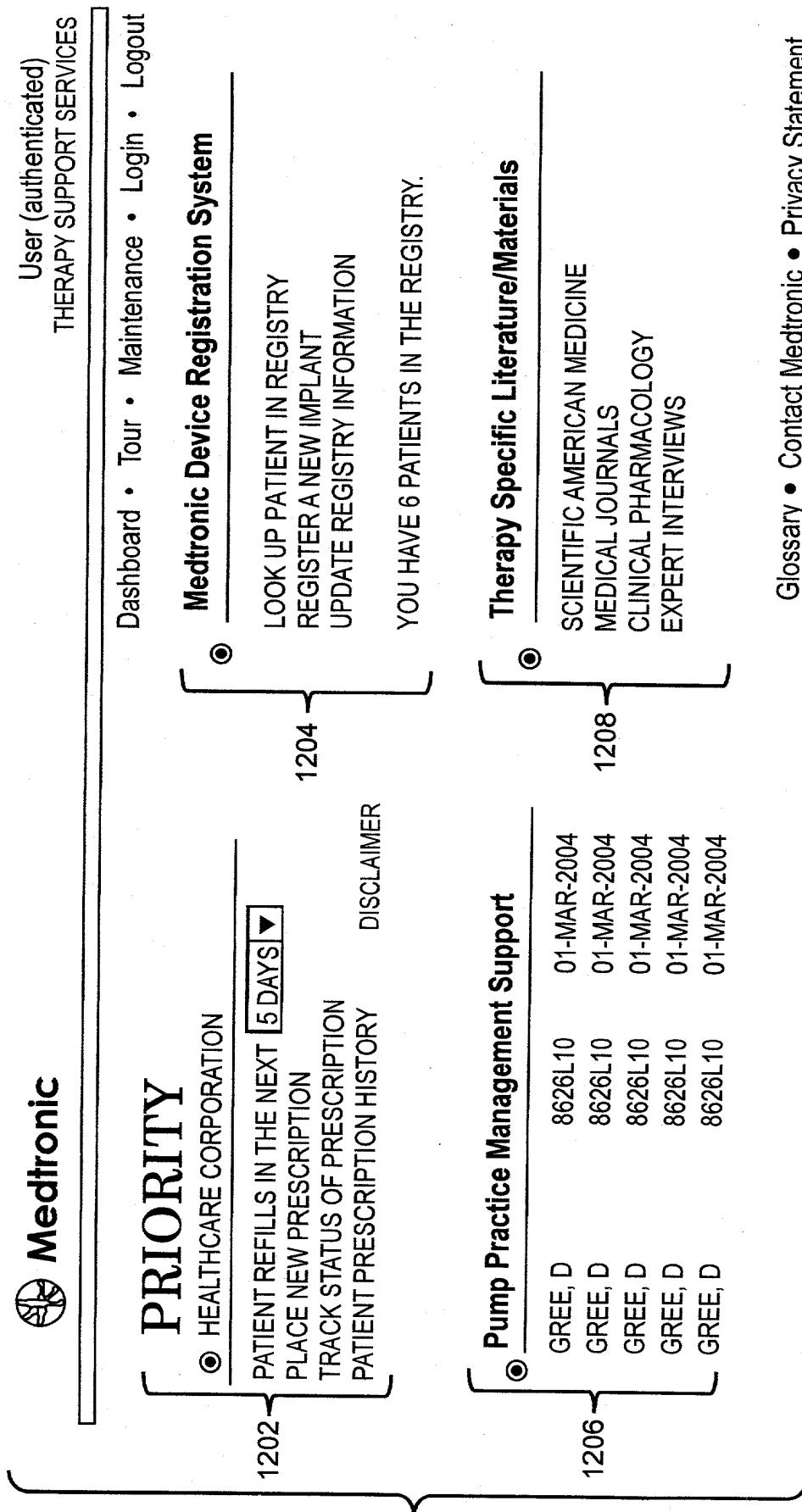
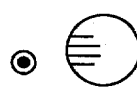


Fig. 12



*Fig. 13*



**PRIORITY**

HEALTHCARE CORPORATION

Patient Reminder in the next **5 days** ▼

Place new prescription

Track status of prescription

Patient prescription history

**Read This!**

Fig. 14



User (authenticated)  
THERAPY SUPPORT SERVICES

Dashboard • Suite 1 • Suite 2 • Maintenance • Login • Logout

### Registered Pump Implants (Mock Up)

Lookup  
Patient  
Register  
Device  
Update  
Registry

Back

Patient Name	Model	Implant Date	Indication	History	Initial Drug	Update
Patient 1	Model 1	12-Jan-2000	Indication	History	Generic	Update
Patient 2	Model 2	12-Jan-2000	Indication	History	Generic	Update
Patient 3	Model 3	12-Jan-2000	Indication	History	Generic	Update
Patient 4	Model 4	12-Jan-2000	Indication	History	Generic	Update
Patient 5	Model 5	12-Jan-2000	Indication	History	Generic	Update
Patient 6	Model 6	12-Jan-2000	Indication	History	Generic	Update
Patient 7	Model 7	12-Jan-2000	Indication	History	Generic	Update
Patient 8	Model 8	12-Jan-2000	Indication	History	Generic	Update
Patient 9	Model 9	12-Jan-2000	Indication	History	Generic	Update
Patient 10	Model 10	12-Jan-2000	Indication	History	Generic	Update
Patient 11	Model 11	12-Jan-2000	Indication	History	Generic	Update
Patient 12	Model 12	12-Jan-2000	Indication	History	Generic	Update

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Fig. 15



User (authenticated)  
THERAPY SUPPORT SERVICES

Dashboard • Suite 1 • Suite 2 • Maintenance • Login • Logout



### Patient Information

Patient Info	Patient Phone	Patient Primary Ins.	Preferences	Consultation	Allergies	Disease	Shipping	Notes	Picture
Last Name				First Name:					
Middle Name:				Title:					
Address 1:									
Address 2:									
City:				State:					
Zip:				Country:					
Patient Status:	Active: <input checked="" type="radio"/> Deceased: <input type="radio"/>								
Social Security No.				Misc. ID:					
Height:				Weight:					
Last Modified On:	Modified By:								
Date Entered:	Entered By:								

Fig. 16

